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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/734,629	12/12/2003	Eric S. Koopferstock	064731.0394	2016	
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2001 ROSS AVENUE			CURS, NATHAN M		
SUITE 600 DALLAS, TX 75201-2980		ART UNIT	PAPER NUMBER		
	,			2613	
			NOTIFICATION DATE	DELIVERY MODE	
			03/10/2008	ELECTRONIC	

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ptomail1@bakerbotts.com glenda.orrantia@bakerbotts.com

	Application No.	Applicant(s)				
Office Action Comments	10/734,629	KOOPFERSTOCK, ERIC S.				
Office Action Summary	Examiner	Art Unit				
	NATHAN CURS	2613				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 12 De	ecember 2007					
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3) Since this application is in condition for allowan		secution as to the merits is				
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	, , , , , , , , , , , , , , , , , , , ,					
· <u>_</u>						
4)⊠ Claim(s) <u>1-5,7-13 and 15-19</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5,7-13 and 15-19</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>12 December 2003</u> is/aı	re: a)⊠ accepted or b)⊡ objecto	ed to by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)	te				
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application 6) Other:						
Paper No(s)/Mail Date 6) L Other:						

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#### **DETAILED ACTION**

### Response to Amendment

1. The Declaration filed on 5 July 2007 under 37 CFR 1.131 has been reconsidered in light of the remarks of 12 December 2007, and is effective to swear behind the Kinoshita reference (US Patent Application Publication No. 2003/0223682).

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-5, 7, 9-13, 15, and 17-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshizawa et al. ("Yoshizawa") (European Patent Office Publication No. 1096713) in view of Sugawara et al. ("Sugawara") (US Patent Application Publication No. 2002/0044315).

Regarding claim 1, Yoshizawa discloses a method for communicating optical traffic at a node (fig. 2A and paragraphs 0006-0009), comprising: receiving optical traffic on a network and demultiplexing the optical traffic into component signals of the optical traffic (fig. 2A, element 40); splitting at least one of the component signals into a drop signal and a continue signal (fig. 2A, element 41); receiving and recovering the drop signal (fig. 2A, element 49); selecting between an add signal and the continue signal for communication on the network (fig. 2A, element 42); and multiplexing the selected signal with other signals for communication on the network (fig. 2A, element 43). Yoshizawa does not disclose splitting the drop signal into a first

drop signal and a second drop signal, and receiving the first drop signal at a work receiver and receiving the second drop signal at a protect receiver. Sugawara discloses a WDM add/drop node where a drop signal is split, with one of the split signals provided to a service tributary and the other provided to a protect tributary (fig. 32 and paragraphs 0312 and 0318-0322). It would have been obvious to one of ordinary skill in the art at the time of the invention to split the drop signal of Yoshizawa to working and protect receivers, to provide the benefit of adding protection in the event of a failure of a receiver.

Regarding claim 2, the combination of Yoshizawa and Sugawara discloses the method of claim 1, wherein demultiplexing the optical traffic into component signals comprises demultiplexing the optical traffic into component wavelengths (Yoshizawa: fig. 2A, element 40).

Regarding claim 3, the combination of Yoshizawa and Sugawara discloses the method of claim 2, but does not disclose that the number of demultiplexed wavelengths is approximately forty. However, Yoshizawa discloses the system is a dense WDM system (paragraph 0001), and the office takes official notice that DWDM systems are well known to have high numbers of wavelengths. It would have been obvious to one of ordinary skill in the art at the time of the invention that a DWDM system would have approximately forty wavelengths, to provide the benefit of utilizing many wavelengths for multiplexed communication.

Regarding claim 4, the combination of Yoshizawa and Sugawara discloses the method of claim 1, wherein: means for demultiplexing the optical traffic comprises means for demultiplexing the optical traffic at a demultiplexer card (Yoshizawa: fig. 2A, element 40); but does not disclose that the means for splitting the at least one of the component signals (Yoshizawa: fig. 2A, element 41) is at the demultiplexer card. However, the office takes official notice that placing multiple WDM optical components onto a single card in a WDM system is well known in the art. Therefore, it would have been obvious to one of ordinary skill in the art at

the time of the invention to mount the disclosed demultiplexer and splitter on a same card in the system of Yoshikawa, to provide the advantages of saving space and reducing the number of separate system sub-modules.

Regarding claim 5, the combination of Yoshizawa and Sugawara discloses the method of claim 4, wherein the splitter is operable to split at least one of the component signals into a drop signal and a continue signal on the demultiplexer card using array waveguide technology or thin film filters (Yoshizawa: paragraph 0007).

Regarding claim 7, the combination of Yoshizawa and Sugawara discloses the method of claim 1, wherein selecting between an add signal and the continue signal comprises selecting between an add signal and the continue signal at a 2.times.1 switch (Yoshizawa: fig. 2A, element 42).

Regarding claim 9, Yoshizawa discloses a system for communicating optical traffic at a node (fig. 2A and paragraphs 0006-0009), comprising: a node operable to receive optical traffic on a network (fig. 2A): a demultiplexer operable to demultiplex the optical traffic received at the node into component signals of the optical traffic (fig. 2A, element 40); a splitter coupled to the demultiplexer, the splitter operable to split at least one of the component signals into a drop signal and a continue signal (fig. 2A, element 41); a receiver coupled to the splitter, the receiver operable to receive and recover the drop signal (fig. 2A, element 49); a switch coupled to the splitter, the switch operable to select between an add signal and the continue signal for communication on the network (fig. 2A, element 42); and a multiplexer coupled to the switch, the multiplexer operable to multiplex the selected signal with other signals for communication on the network (fig. 2A, element 43). Yoshizawa does not disclose a second splitter coupled to the splitter, the second splitter operable to split the drop signal into a first drop signal and a second drop signal, and a work receiver couple to the second splitter operable to receive the first drop

signal, and a protect receiver coupled to the second splitter, the protect receiver operable to receive the second drop signal. However, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine Sugawara with Yoshizawa as described above for claim 1.

Regarding claim 10, the combination of Yoshizawa and Sugawara discloses the system of claim 9, wherein a demultiplexer operable to demultiplex the optical traffic into component signals comprises a demultiplexer operable to demultiplex the optical traffic into component wavelengths (Yoshizawa: fig. 2A, element 40).

Regarding claim 11, the combination of Yoshizawa and Sugawara discloses the system of claim 10, but does not disclose that the number of demultiplexed wavelengths is approximately forty. However, Yoshizawa discloses the system is a dense WDM system (paragraph 0001), and the office takes official notice that DWDM systems are well known to have high numbers of wavelengths. It would have been obvious to one of ordinary skill in the art at the time of the invention that a DWDM system would have approximately forty wavelengths, to provide the benefit of utilizing many wavelengths for multiplexed communication.

Regarding claim 12, the combination of Yoshizawa and Sugawara discloses the system of claim 9, wherein: means for demultiplexing the optical traffic comprises means for demultiplexing the optical traffic at a demultiplexer card (Yoshizawa: fig. 2A, element 40); but does not disclose that the means for splitting the at least one of the component signals (Yoshizawa: fig. 2A, element 41) is at the demultiplexer card. However, the office takes official notice that placing multiple WDM optical components onto a single card in a WDM system is well known in the art. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to mount the disclosed demultiplexer and splitter on a same card in the

system of Yoshikawa, to provide the advantages of saving space and reducing the number of separate system sub-modules.

Regarding claim 13, the combination of Yoshizawa and Sugawara discloses the system of claim 12, wherein the splitter is operable to split at least one of the component signals into a drop signal and a continue signal on the demultiplexer card using array waveguide technology or thin film filters (Yoshizawa: paragraph 0007).

Regarding claim 15, the combination of Yoshizawa and Sugawara discloses the system of claim 9, the switch comprises a 2.times.1 switch (Yoshizawa: fig. 2A, element 42).

Regarding claim 17, Yoshizawa discloses a system for communicating optical traffic at a node (fig. 2A and paragraphs 0006-0009), comprising: means for receiving optical traffic on a network (fig. 2A); means for demultiplexing the optical traffic into component signals of the optical traffic (fig. 2A, element 40); means for splitting at least one of the component signals into a drop signal and a continue signal (fig. 2A, element 41); means for receiving and recovering the drop signal (fig. 2A, element 49); means for selecting between an add signal and the continue signal for communication on the network (fig. 2A, element 42); and means for multiplexing the selected signal with other signals for communication on the network (fig. 2A, element 43). Yoshizawa does not disclose means for splitting the drop signal into a first drop signal and a second drop signal, and means for receiving the first drop signal at a work receiver and means for receiving the second drop signal at a protect receiver. However it would have been obvious to one of ordinary skill in the art at the time of the invention to combine Sugawara with Yoshizawa as described above for claim 1.

Regarding claim 18, the combination of Yoshizawa and Sugawara discloses the system of claim 17, wherein means for demultiplexing the optical traffic into component signals

comprises means for demultiplexing the optical traffic into component wavelengths (Yoshizawa: fig. 2A, element 40).

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Regarding claim 19, the combination of Yoshizawa and Sugawara discloses the system of claim 17, wherein: means for demultiplexing the optical traffic comprises means for demultiplexing the optical traffic at a demultiplexer card (Yoshizawa: fig. 2A, element 40); but does not disclose that the means for splitting the at least one of the component signals (Yoshizawa: fig. 2A, element 41) is at the demultiplexer card. However, the office takes official notice that placing multiple WDM optical components onto a single card in a WDM system is well known in the art. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to mount the disclosed demultiplexer and splitter on a same card in the system of Yoshikawa, to provide the advantages of saving space and reducing the number of separate system sub-modules.

4. Claims 8 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshizawa (European Patent Office Publication No. 1096713) in view of Sugawara (US Patent Application Publication No. 2002/0044315), as applied to claims 1-5, 7, 9-13, 15, and 17-19 above, and further in view of Antoniades et a. ("Antoniades") (US Patent Application Publication No. 2002/0048066).

Regarding claims 8 and 16, the combination of Yoshizawa and Sugawara discloses the method and system of claims 1 and 9, but does not disclose that the node comprises a tap operable to tap an optical supervisory signal from the optical traffic. Antoniades discloses an add/drop WDM system similar to that of Yoshizawa, where the node comprises a tap operable to tap an optical supervisory signal from the optical traffic (fig. 3 and paragraph 0017 and 0018). It would have been obvious to one of ordinary skill in the art at the time of the invention to use a

WDM-based OSC signal in the system of Yoshizawa, to provide the benefit of having control, messaging and alarming between nodes, as taught by Antoniades.

### Response to Arguments

5. Applicant's arguments filed 12 December 2007, with respect to the rejections under 35 USC § 103 with Kinoshita as a secondary reference, have been fully considered and are persuasive with respect to the 37 CFR 1.131 declaration swearing behind the publication date of Kinoshita, thus preventing commonly-owned Kinoshita from being available as prior art according to 35 USC § 103(c). Therefore, the corresponding rejections have been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Sugawara.

#### **Conclusion**

6. Any inquiry concerning this communication from the examiner should be directed to N. Curs whose telephone number is (571) 272-3028. The examiner can normally be reached on M-F (from 9 AM to 5 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan, can be reached at (571) 272-3022. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (800) 786-9199.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pairdirect.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Nathan M. Curs/

Examiner, Art Unit 2613